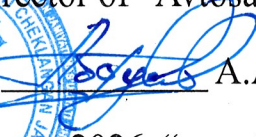


“APPROVED”



General Director of “Avtosanoat Invest” LLC

 A.A. Abdumavlonov

2026 “ ” “ ”

For the procurement of services for establishing a national automotive brand and
developing a prototype of a new A-segment city car

TECHNICAL SPECIFICATION FOR THE ELECTRONIC TENDER

Customer: “Avtosanoat Invest” LLC

Toshkent - 2026

TENDER REQUIREMENTS DOCUMENT

Establishment of a National Automotive Brand and Development of a New A-Segment City Car Prototype

Brand Creation, Styling, Engineering & Prototype Development with On-the-Job Training

Issued by: Avtosanoat Invest LLC **Document Type:** Request for Proposal (RFP)
Document No.: AI-RFP-[0003]-2026 **Issue Date:** July 2026 **Classification:** Confidential

1. EXECUTIVE SUMMARY

Avtosanoat Invest LLC (hereinafter referred to as “the Client”) is embarking on one of the most strategically significant programs in Uzbekistan's industrial history — the creation of the country's **first national automotive brand** and the development of its **first original vehicle prototype**.

This Request for Proposal invites qualified engineering and design companies to serve as a **technology and brand partner** for this program. The selected Engineering Company will be responsible for establishing the new brand, researching and selecting a suitable donor vehicle, and executing the full program — from market research and brand creation through pre-concept, styling, engineering development, and delivery of fully functional real prototypes presented to Avtosanoat Invest LLC high-level leadership and stakeholders.

This program is focused on **prototype development only**. All engineering activities are scoped to the level required to build high-quality, visually accurate, drivable prototypes — not to production-intent standards. If leadership provide a positive decision following prototype presentation, the next step — full production engineering, validation, homologation, and SOP — will be initiated as a **separate independent program** with a new tender and contract.

All CAD data and styling surfaces produced during this program shall be formally handed over to Avtosanoat Invest LLC at program completion and will serve as a valuable starting point for the next program.

A defining feature of this program is the **on-the-job training** of Avtosanoat Invest LLC engineers, who shall be embedded within the Engineering Company and actively participate in all activities throughout the program — gaining direct, hands-on competency in brand creation, automotive design, styling, engineering, and prototype build processes.

The target vehicle is an **A-segment city car**, 4-door hatchback, LHD, with ICE powertrain (2 prototype units mandatory in total, offering more than 2 prototype units will have preference during bidding process; ICE is mandatory, additional units offered as EV or PHEV will have preference during bidding process), with a target retail price of approximately Average price in the Customer’s domestic market, aimed primarily at the Uzbekistan market with CIS export consideration

2. DEFINITIONS & ABBREVIATIONS

Term	Definition
Client	Avtosanoat Invest LLC — the issuing organization
Engineering Company	The selected company acting as technology and brand partner
RFP	Request for Proposal — this tender document
CAD	Computer-Aided Design
CAS	Computer Aided Styling — digital 3D surface development for styling purposes
NX	Siemens NX — CAD software platform
Alias	Autodesk Alias — automotive styling surface software
ICE	Internal Combustion Engine
EV	Electric Vehicle
PHEV	Plug-in Hybrid Electric Vehicle
COP	Carry-Over Parts — components retained from the donor vehicle
BoM	Bill of Materials
DNA	Brand and design identity attributes
CMF	Colour, Materials and Finish
OEM	Original Equipment Manufacturer
CIS	Commonwealth of Independent States
NDA	Non-Disclosure Agreement
ECE	Economic Commission for Europe — regulatory standard prefix
LHD	Left Hand Drive
AM	Additive Manufacturing — 3D printing technologies
SLA	Stereolithography — resin-based 3D printing
SLS	Selective Laser Sintering — powder-based 3D printing
RIM	Reaction Injection Moulding — low-volume plastic part manufacturing
VTs	Vehicle Technical Specification
VoC	Voice of Customer
BIW	Body in White
HMI	Human-Machine Interface

3. PROJECT BACKGROUND

3.1 Strategic Vision

Avtosanoat Invest LLC is transforming Uzbekistan's automotive industry from contract manufacturing toward independent vehicle development and brand ownership. This program

marks the beginning of that transformation — establishing Uzbekistan's first proprietary national automotive brand and presenting its first vehicle prototype to leadership for evaluation and approval.

The new brand must be deeply rooted in **Uzbekistan's rich cultural heritage, national values, and the aspirations of its people**, while projecting a modern, forward-looking identity that resonates with both domestic and regional customers. It must stand for quality, accessibility, and national pride.

3.2 Program Scope

This RFP covers the full program from project kick-off through to prototype presentation to leadership, including:

- National brand creation
- Donor vehicle research and selection
- Pre-concept study
- Styling and design development
- Prototype engineering (to prototype-intent level)
- Prototype build — at least 2 units (multiple powertrain variants and colors)
- Formal presentation to Avtosanoat Invest LLC leadership and stakeholders

If leadership provide a positive decision, the **next step** — full production engineering, validation, homologation, tooling, and SOP — will be initiated as a separate independent program. All CAD data and styling surfaces from this program will be formally handed over to Avtosanoat Invest LLC and will serve as its starting point.

3.3 Vehicle Concept

Parameter	Target
Segment	A-segment (City Car)
Body Style	Hatchback, 4 Doors, 5 Seats
Drive	Left Hand Drive (LHD)
Powertrain Variants	ICE (<i>mandatory; at least 2 units total, Unit 1 always ICE</i>); EV or PHEV (<i>additional units beyond Proto Car1 I, highly desirable, additional score</i>);
Emission Standard	Euro 5 (ICE variant)
Target Retail Price	Average price in the Customer's domestic market
Production Volume (next program)	50,000 vehicles per year
Lifecycle Volume (next program)	250,000 vehicles

Primary Market	Republic of Uzbekistan
Secondary Market	CIS region
Production Site (next program)	Uzbekistan

3.4 Prototype Units Plan

At least **2 (two) prototype units** shall be delivered under all circumstances, regardless of the option selected below.

- **Option A – ICE Only**

All Proto Cars shall be delivered in ICE powertrain, in different exterior colours.

Evaluation: This option satisfies the minimum RFP requirement and will receive the baseline evaluation score.

- **Option B – ICE + EV/PHEV**

At least Proto Car 1 shall remain ICE. Proto Car 2 shall be delivered as EV or PHEV instead of ICE.

Evaluation: This option will receive a **higher evaluation score**.

3.5 Donor Vehicle

No donor vehicle has been finalized. The Engineering Company shall indicate its proposed approach by selecting **one** of the following options:

- **Option A – Joint Identification**

The donor vehicle shall be jointly identified, evaluated, and selected by Avtosanoat Invest LLC and the Engineering Company.

Evaluation: This option satisfies the minimum RFQ requirement and will receive the **minimum evaluation score**.

- **Option B – Engineering Company Proposal**

The Engineering Company shall propose one or more suitable donor vehicle candidates that comply with the project requirements. Avtosanoat Invest LLC shall make the final selection.

Evaluation: This option will receive a **higher evaluation score**.

3.6 New Parts Scope

The following components shall be entirely new designs. All remaining vehicle systems, mechanical components, and architecture shall follow a **Carry-Over Parts (COP) strategy** from the donor vehicle:

Exterior: Front Bumper, Radiator Grille, Hood, Front Fender, Headlamps, Rear Bumper, Tailgate, Taillamps

Interior: Instrument Panel (IP), Instrument Cluster (*colour, lighting and font only*), Door Trim Panels, Centre Console, Seat Covers

3.7 Regulatory & Certification Requirements

The prototype vehicles are not required to achieve full ECE homologation under this program. However, the design and engineering shall be carried out in accordance with the following applicable regulations to ensure the next program can achieve full compliance:

Regulation	Revision	Regulation	Revision
ECE 10	03	ECE 46	02
ECE 11	03	ECE 48	04
ECE 12	03	ECE 51	02
ECE 13H	00	ECE 64	02
ECE 14	07	ECE 79	01
ECE 16	06	ECE 83	—
ECE 17	08	ECE 94	01
ECE 116	00	ECE 95	02
ECE 21	01	ECE 101	01
ECE 26	03	ECE 117	01
ECE 28	00	ECE 121	00
ECE 30	02	ECE 122	00
ECE 34	02	ECE 125	00
ECE 35	00	ECE 127	00
ECE 39	00	ECE 43	—

4. SCOPE OF WORK

The program is structured across the following phases. The Engineering Company is responsible for executing all phases. Avtosanoat Invest LLC engineers shall participate actively at every stage through **on-the-job training**, and Avtosanoat Invest LLC holds final approval authority on all key decisions.

PHASE 0 — PROJECT SETUP & DONOR VEHICLE RESEARCH

4.1 Donor Vehicle Research & Selection

Mandatory Donor Vehicle Requirements:

- Donor vehicle age shall be **no more than 5 years** from its original production launch date
- Remaining lifecycle shall be **no less than 10 years** from the date of this agreement

- The donor OEM must formally commit to **maintaining supplier network support for the full 10-year period** — including parts availability, engineering support, and supply chain continuity
- **Must be available in ICE production variant** — mandatory requirement
- **EV/PHEV variant availability** — highly desirable; availability of an EV or PHEV variant in addition to ICE will be viewed favorably and awarded additional evaluation score
- Vehicle dimensions and architecture must be suitable for A-segment, 4-door hatchback, 5 seats, LHD
- Must have existing or achievable ECE and CIS market homologation status
- Must support Euro 5 emission standard (ICE variant)
- Must support target retail price of approximately \$10,000 USD

Process:

- Global identification and technical evaluation of all suitable candidate donor vehicles
- Structured comparative benchmarking report against mandatory criteria
- Joint commercial and technical negotiations with OEM providers
- Final donor vehicle recommendation report (subject to Avtosanoat Invest LLC approval)

4.2 Project & Resource Planning

- Comprehensive master project plan covering all phases
- Full resource plan — design, engineering, prototype manufacturing, and testing requirements
- COP strategy definition — identification of all donor vehicle carry-over systems and components
- Preliminary Bill of Materials (BoM) starting point
- Preliminary Tier 1 supplier strategy for new parts
- Risk assessment and mitigation strategy
- On-the-Job Training Plan aligned to program activities

PHASE 1 — BRAND CREATION & PRE-CONCEPT STUDY

4.3 National Brand Establishment

The Engineering Company shall lead full brand creation, subject to Avtosanoat Invest LLC formal written approval at each stage.

Brand Name Requirements:

- **Short** — maximum 2 syllables, easy to pronounce in Uzbek, Russian, and English
- **Sonorous** — strong, confident, and memorable sound
- **Meaningful** — carries a positive and relevant meaning
- **Culturally appropriate** — must not carry negative or undesirable meanings in any major language of target markets (Uzbek, Russian, English, and other CIS languages)
- **Unique and protectable** — available for trademark registration in Uzbekistan and key CIS markets
- A minimum of **3 brand name candidates** shall be presented with full linguistic and trademark analysis before final selection

Color Strategy Requirements:

- Colours must reflect **Uzbekistan's national identity and cultural heritage** — referencing elements such as the Silk Road, traditional craftsmanship, architecture, and natural landscape
- Must convey intended brand personality — trustworthy, modern, accessible, proud
- Must perform well across all applications — digital, print, vehicle body, signage
- Tested for **legibility, contrast, and accessibility** across media and lighting conditions
- Minimum **2 colour palette proposals** with full rationale

Brand Creation Activities:

- **Market Research & Consumer Insight** — Target customer profiling, lifestyle, aspirations, and purchasing behavior in Uzbekistan and CIS
- **Cultural Heritage Research** — Study of Uzbekistan's history, art, architecture, and craftsmanship as authentic brand foundation
- **Competitive Landscape Analysis** — A-segment brand and product benchmarking in target markets
- **Brand Strategy** — Positioning, target audience, value proposition rooted in national identity
- **Brand Philosophy & DNA** — Core values, personality, emotional attributes, long-term vision
- **Brand Identity System** — Name, logo, wordmark, color palette, typography, visual identity guidelines
- **Brand Design Language** — Exterior and interior DNA to guide all future programs

- **Brand Book** — Comprehensive documentation of all identity elements, guidelines, and brand story

4.4 Pre-Concept Study

High-Level Vehicle Description. Based on the selected donor vehicle and COP strategy, the Engineering Company shall define the high-level contents, main performances, customer experience, safety systems, infotainment functions, and ADAS features of the new vehicle. All carry-over functions and attributes shall be clearly identified and documented.

Vehicle Architecture & Hard Points. Based on a competitive benchmarking study of best-in-class A-segment reference vehicles, the Engineering Company shall define the most appropriate vehicle dimensions (wheelbase, overall length, width, height, overhangs), ergonomic hard points (H-point, eye ellipse, reach zones), and key package parameters. The hard points shall fully consider the production and assembly technology available at the Avtosanoat Invest LLC production facility.

High-Level Vehicle Technical Specification (VTS). A structured Vehicle Technical Specification document shall be prepared, defining all key vehicle targets including performance, safety, comfort, NVH, weight, and regulatory compliance targets — to serve as the engineering reference baseline for all subsequent development phases.

Carry-Over Exploded View & Preliminary Parts List. The Engineering Company shall prepare a COP strategy document with exploded view visualization, identifying all components and systems retained from the donor vehicle. This shall form the starting point of the Bill of Materials (BoM) for the next program, organized by assembly level (e.g. body, chassis, powertrain, electrical, interior modules).

High-Level Bodies Assembly Scenario. The Engineering Company shall define the high-level body assembly strategy for the new vehicle, including:

- Identification of all major body assemblies and their joining sequence
- Definition of new vs. carry-over body panels and structural components
- Preliminary joining technology recommendations (welding, bonding, fastening) for new parts
- Assessment of assembly feasibility within the constraints of the Avtosanoat Invest LLC production facility
- Identification of any tooling or facility investment requirements at assembly level

Tier 1 Supplier Strategy. The Engineering Company shall prepare a preliminary Tier 1 supplier engagement strategy, including:

- Identification of all parts and systems requiring strategic Tier 1 supplier involvement from the early concept stage (e.g. lighting, glazing, HVAC, seating, infotainment)
- Recommendation of supplier engagement timing per part category

- Preliminary supplier market assessment for Uzbekistan and CIS region — identifying locally available vs. import-dependent suppliers
- Supplier list alignment with Avtosanoat Invest LLC purchasing department
- Definition of supplier technical requirements and qualification criteria for key systems

Development Cost Estimation. Preliminary estimation of total engineering development cost from the current program through to SOP of the next program, to support Avtosanoat Invest LLC business planning and investment decisions.

Preliminary Investment & Variable Cost Evaluation. Indicative investment (tooling, facilities) and variable cost estimates for all new upper body parts (BIW, exterior trim, interior trim), based on engineering judgement and the Engineering Company's experience with comparable programs.

PHASE 2 — STYLING & DESIGN DEVELOPMENT

- **Design Trend Analysis** — Global and regional automotive design trends relevant to A-segment and brand positioning
 - **2D Style Phase I** — Minimum 10 exterior and interior concept sketches reflecting brand DNA; client selects 3 themes to develop further
 - **2D Style Phase II** — Development and finalization of 3 selected themes (exterior and interior); CMF proposals developed in parallel; client selects 1 exterior theme, 1 interior theme, 1 CMF direction
 - **3D CAS Finalization** — Full 3D Computer Aided Styling of selected themes using **Autodesk Alias**; quality suitable for video rendering and engineering feasibility
 - **Video Rendering** — High-quality 3D turntable video rendering of final design
 - **Concept Design Freeze** — Formal sign-off (Avtosanoat Invest LLC approval required)
-

PHASE 3 — PROTOTYPE ENGINEERING

This phase covers engineering development of all new parts **to prototype-intent level only** — sufficient to manufacture high-quality, visually accurate, drivable prototypes. Production-intent standards (full DFMEA, DVP&R, GD&T, DFM, tooling feasibility) are **not required** in this program and are reserved for the next independent program.

All engineering CAD work shall be conducted in **Siemens NX**.

4.5 Styling Surface to Prototype-intent Engineering

- Translation of approved CAS surfaces (Alias) into prototype-intent engineering (NX)
- Definition of part splits, draft angles, and basic wall thickness

- Integration checks with donor vehicle hard points and carry-over systems
- Sufficient detail to support prototype manufacturing and assembly

4.6 New Parts Engineering — Prototype Intent

Front Bumper

- Engineering geometry based on approved styling surface
- Integration with front-end module, fog lamps, PDC sensor provisions
- Basic wall thickness and material definition for AM/RIM manufacturing
- Mounting and attachment strategy to donor vehicle structure

Radiator Grille

- Engineering geometry aligned with brand DNA
- Integration with front bumper
- Finish process definition for prototype (paint, chrome film)
- Mounting strategy

Hood

- Outer panel engineering geometry
- Hinge and latch interface definition — carry-over or adapted from donor vehicle
- Sealing provisions

Front Fender

- Outer panel engineering geometry
- Attachment strategy and gap/flush targets with adjacent panels
- Wheel arch liner interface

Headlamps

- Outer lens and housing geometry
- Integration with front bumper and hood
- Electrical interface definition — connector and harness routing for prototype
- Supplier specification for prototype optics procurement

Rear Bumper

- Engineering geometry based on approved styling surface
- Integration with rear parking sensors, rear camera, fog lamp provisions

- Mounting strategy

Tailgate

- Outer panel engineering geometry
- Hinge and latch interface definition
- Sealing provisions
- Rear wiper and glazing interface

Taillamps

- Outer lens and housing geometry
- Integration with tailgate and rear bumper
- Electrical interface — connector and harness routing for prototype
- Supplier specification for prototype optics procurement

Instrument Panel (IP)

- Full IP structure geometry (armature, substrate, skin)
- Integration of instrument cluster, infotainment, HVAC controls, airbag module provisions
- Surface and grain definition
- Glove box, storage, and cup holder geometry

Instrument Cluster

- Colour scheme, display lighting, and font specification aligned with brand DNA
- Interface definition with IP structure
- No modification to underlying electronics or software architecture

Door Trim Panels

- Engineering Geometry for all 4 doors
- Integration with door structure, armrest, speaker provisions
- Material and grain definition aligned with CMF

Centre Console

- Structure geometry
- Storage, cup holder, armrest integration
- Integration with gear selector, infotainment controls, and USB/charging provisions
- Material and finish definition — aligned with CMF direction

Seat Covers

- Material, color, pattern, and seam definition aligned with CMF
- Front and rear seat cover engineering including seam pattern and stitching definition
- Material specification (fabric, leatherette, or mixed) and supplier specification for prototype seat cover production
- No modification to seat structure or foam — carry-over from donor vehicle

4.7 EV/PHEV Variant Engineering

- Engineering geometry adaptations for EV or PHEV variant (badge, charging port provisions, underbody considerations as visible)
- Coordination with donor vehicle EV platform hard points
- Differentiation between ICE, EV, and PHEV prototype units as required

4.8 CAD Data Package

Upon completion of prototype engineering, the Engineering Company shall compile and deliver a **CAD Data Package** to Avtosanoat Invest LLC comprising:

- All engineering geometry in **Siemens NX** native format (and STEP/IGES)
- All styling surfaces in **Autodesk Alias** native format
- Assembly structure and part naming convention
- All supporting engineering documentation produced during this phase

This CAD Data Package becomes the sole property of Avtosanoat Invest LLC and shall serve as the starting point for the next production engineering program.

Note: This is not a full Prototype Math Data Release (PDR) — it is a prototype-intent CAD package. Full PDR to production standards will be executed in the next program.

PHASE 4 — PROTOTYPE BUILD & PRESENTATION

4.9 Prototype Manufacturing & Assembly

The Engineering Company shall build at least **2 (two) fully functional prototype vehicles** under all circumstances: Units shall be ICE (mandatory) unless offered additional EV or PHEV units, which will be awarded additional evaluation score, as defined in Section 3.4.

Prototype Performance Requirements:

- Visual appearance shall be **indistinguishable from a production vehicle** — all panel gaps, flush lines, paint quality, and interior finish shall meet a standard comparable to a production vehicle

- All prototypes shall be **fully drivable** at speeds of up to **30–40 km/h** in a controlled environment
- All exterior lights shall be **functional** (on/off and basic animation)
- Interior HMI elements shall be representative — carried over from donor vehicle where possible
- All units shall be **independently drivable** and presented simultaneously at the leadership presentation event

Manufacturing Methods: Prototype parts shall be manufactured using cost-effective methods appropriate for low-volume prototype production. The following methods are approved:

Part	Material	Manufacturing Method
Hood	CFRP	Carbon fiber laminated technology
Front Fender	CFRP	Carbon fiber laminated technology
Tailgate	CFRP	Carbon fiber laminated technology
Front Bumper	Plastic / Composite	SLA/SLS 3D printing or RIM
Rear Bumper	Plastic / Composite	SLA/SLS 3D printing or RIM
Radiator Grille	Plastic / Composite	SLA/SLS 3D printing + paint/chrome film
Headlamps	—	Prototype optics + AM housing
Taillamps	—	Prototype optics + AM housing
Instrument Panel (IP)	Composite / Foam	RIM or AM + upholstery
Instrument Cluster	—	Modified donor cluster + new overlay
Door Trim Panels	Composite / Fabric	RIM or AM + upholstery
Centre Console	Plastic / Composite	SLA/SLS 3D printing or RIM
Seat Covers	Fabric / Leatherette	Hand-sewn over donor vehicle seat structure

The Engineering Company shall propose and justify the manufacturing method for each part in their Technical Proposal, with the objective of maximizing visual quality and production equivalence within prototype budget and timeline constraints.

Assembly activities:

- Donor vehicle disassembly and preparation (per variant — ICE, EV/PHEV)
- Electrical and electronics systems adaptation and integration
- Prototype lighting system manufacturing, testing, and assembly
- Body painting of all new exterior parts (production-equivalent paint quality)
- Interior upholstery and trim assembly
- Final assembly and quality checks of all prototype units

- Pre-presentation quality inspection

4.10 Prototype Presentation

- Full project sign-off on all completed prototypes
- Formal presentation to Avtosanoat Invest LLC high-level leadership and stakeholders
- All prototype units displayed simultaneously — demonstrating powertrain and color range
- Supporting materials: high-quality renderings, photography, and video
- **Future Design Vision (5-Year Outlook)** — forward-looking design concept showing how the vehicle's design identity may evolve approximately 5 years after initial model launch (potential facelift/mid-cycle refresh direction), including:
 - Minimum 3 high-quality exterior CGI renders (front 3/4, rear 3/4, side profile)
 - Minimum 1 interior CGI render showing the refreshed cabin direction
 - A brief design narrative explaining the evolution logic — how the brand DNA matures and progresses from the initial model while maintaining design continuity
 - *This vision is not a binding commitment but demonstrates the brand's long-term design direction*

PHASE 4A — BRAND LAUNCH COMMUNICATION SUPPORT

(Parallel to Phase 4)

Supporting Material Preparation:

- High-quality video production (direction, shooting, final editing)
- High-quality CGI renderings
- High-resolution images (shooting and post-production)
- All texts and content definition and editing
- Press releases

LEADERSHIP APPROVAL GATE

Upon completion of this program, Avtosanoat Invest LLC leadership and stakeholders will formally evaluate the prototypes and all deliverables. Should the evaluation result in a positive decision, the **next program** — full production engineering, DFMEA, DVP&R, validation, ECE homologation, tooling release, Production Math Data Release (MDR), and SOP support — will be initiated as a **separate independent program** with a new tender and contract. All deliverables from this program, including the CAD Data Package, will serve as its direct foundation.

The next program is not within the scope of this RFP and is referenced here for context only.

5. TECHNOLOGY TRANSFER & ON-THE-JOB TRAINING

On-the-job training is a **primary deliverable and contractual obligation** of this program. Avtosanoat Invest LLC engineers shall be embedded within the Engineering Company and actively participate in all project activities. Training scope is aligned to the activities performed in this program — brand creation, styling, CAS, prototype engineering (NX), and prototype build.

5.1 Training Coverage by Discipline

Stage	Knowledge Area
Market Research	Consumer insight, VoC techniques, competitive benchmarking
Brand Creation	Brand strategy, DNA development, identity design, brand book preparation
Styling & Design	Sketching, ideation, 2D/3D design development, design review process
CAS Development	Autodesk Alias workflows, styling surface development, CAS-to-engineering handover
Pre-Concept	Vehicle architecture, hard points, package, COP strategy
Prototype Engineering	Siemens NX — prototype-intent geometry, part integration, assembly structure
Prototype Build	Parts manufacturing, assembly, quality management
Project Management	Milestone planning, progress reporting, issue resolution
Supplier Management	Prototype supplier engagement, specification, procurement

5.2 Embedded Engineer Program

Avtosanoat Invest LLC will dispatch engineers across the following disciplines. All embedded engineers shall be **active project participants** involved in all relevant activities, reviews, and decisions.

Role	No.	Key Activities	Ph.0	Ph.1	Ph.2	Ph.3	Ph.4
Project Manager	2	Planning, milestone tracking, reporting, issue resolution	●	●	●	●	●
Automotive Designer	4	Brand DNA, sketching, 2D concept, CMF, design reviews	—	●	●	—	—
Digital Modeler	2	CAS development in Alias, styling surfaces, CAS-to-NX handover	—	—	●	●	—
Body Engineer — Exterior	3	NX prototype geometry, exterior parts, integration, assembly	—	—	—	●	●

Body Engineer — Interior	2	NX prototype geometry, IP, door trim, console, seat covers	—	—	—	●	●
EE Engineer	2	Lighting electrical interface, harness routing, supplier specs	—	—	—	●	—
CAE Engineer	3	Basic structural checks, EV/PHEV variant engineering support	—	—	—	●	—
Prototype Engineer	4	AM/3D printing, vacuum casting, assembly, quality inspection	—	—	—	—	●
Total	22		2	6	8	14	11

Bottom row = number of Avtosanoat Invest LLC engineers concurrently at Engineering Company facilities per phase.

Program conditions:

- The Engineering Company shall assign a **dedicated senior mentor** per discipline group
- The Engineering Company shall provide embedded engineers with **dedicated workspace, workstation access, and all necessary software tools** for the duration of their placement
- The Engineering Company shall support embedded engineers with necessary **facility access, security clearance, and administrative onboarding** at no additional cost
- All **travel costs, accommodation, and daily living expenses** of Avtosanoat Invest LLC embedded engineers during their placement at the Engineering Company's facilities shall be **borne by Avtosanoat Invest LLC**
- Rotation schedule and support arrangements formally defined in the On-the-Job Training Plan

5.3 Joint Engineering at Avtosanoat Invest LLC Facilities

- A defined portion of work shall be conducted at Avtosanoat Invest LLC facilities in Uzbekistan
- Engineering Company engineers shall be deployed for joint sessions, design reviews, and milestone events
- Travel and accommodation costs for Engineering Company engineers visiting Avtosanoat Invest LLC facilities shall be borne by the Engineering Company and included in the commercial proposal

5.4 Process Documentation

- All processes, methodologies, and workflows used during the program shall be **fully documented** for reuse
- Documentation formally handed over to Avtosanoat Invest LLC at program completion

5.5 Tools & Software Training

- Structured training on **Siemens NX** and **Autodesk Alias** included throughout
- All additional tools used shall be covered in the Training Plan

5.6. Workshops & Training Sessions

- Formal training workshops at key phase transitions
 - Training records and competency assessments maintained and reported regularly
-

6. TECHNICAL REQUIREMENTS

6.1 CAD & Styling Tools

- Engineering CAD: **Siemens NX** (mandatory)
- Styling Surfaces: **Autodesk Alias** (mandatory)
- All data delivered in native NX and Alias formats plus STEP/IGES

6.2 Prototype Performance Standards

- Visual appearance indistinguishable from a production vehicle
- Driveable at **30–40 km/h** in controlled environment
- All exterior lighting fully functional
- Interior representative of final product intent

6.3 Emission Standard Awareness

- ICE variant engineering shall be carried out with awareness of **Euro 5** requirements for the next program

6.4 Regulatory Awareness

Engineering shall be carried out with awareness of ECE regulations listed in Section 3.7 to ensure the next program can achieve full compliance without redesign.

7. DELIVERABLES SUMMARY

Phase	Key Deliverables
Phase 0	Donor Vehicle Selection Report, Master Project Plan, COP Strategy, Resource Plan, OJT Plan
Phase 1	Brand Book, Pre-Concept Report, VTS, Bodies Assembly Scenario, Tier 1 Supplier Strategy, Cost Estimation
Phase 2	2D Sketches (min. 10 Ph.I, 3 Ph.II), CMF Proposals, 3D CAS Data (Alias), Video Rendering, Design Freeze

Phase 3	CAD Data Package (NX + Alias) — Prototype-intent geometry for all new parts, EV/PHEV adaptations
Phase 4	At least 2 Fully Built Drivable Prototypes, Future Design Vision Renders, Leadership Presentation
Phase 4A	Brand Launch Video, Renderings, Press Materials, First Launch Event Support

8. TIMELINE & MILESTONES

The total program duration shall not exceed **12 months** from contract signing to prototype presentation. Bidders shall propose a detailed milestone schedule within this constraint.

Milestone	Description	Time
M0	Contract Signing & Project Kick-Off	12 months
M1	Donor Vehicle Selected & Confirmed	
M2	Brand Identity & DNA Approved	
M3	Pre-Concept Study Complete	
M4	Concept Design Freeze	
M5	CAS Surfaces Released (Alias)	
M6	CAD Data Package Complete (NX)	
M7	Prototype Build Complete — at least 2 units	
M8	Prototype Presentation to Leadership	
—	Leadership Approval Gate → Next program initiated separately if approved	

Note: Phases 2 and 3 may be partially overlapped. Phase 4A runs in parallel with Phase 4.

9. QUALIFICATION REQUIREMENTS

9.1 Experience

- Minimum 10 years of experience in automotive vehicle development programs
- Proven delivery of at least 3 complete vehicle programs from concept to SOP
- Experience in automotive brand creation or design language development — significant advantage
- Prior experience in **technology transfer or on-the-job training with OEMs** — significant advantage
- Experience with A-segment or B-segment programs preferred
- Experience with EV and PHEV vehicle development preferred

9.2 Design Capability

- In-house automotive design studio with sketching, digital rendering capability

- Proven styling surface capability using **Autodesk Alias**
- Experience in brand identity and CMF development

9.3 Engineering Capability

- Full engineering capability in **Siemens NX** (mandatory)
- Prototype manufacturing capability — AM/3D printing, vacuum casting, RIM, carbon fiber lamination technology
- Experience in low-volume prototype build and assembly

9.4 Certifications

- ISO 9001 (mandatory)

9.5 Capacity & Infrastructure

- Ability to host minimum 2 Avtosanoat Invest LLC engineers per discipline with dedicated workspace and tool access
- Senior mentoring structure for embedded engineers
- Ability to deploy engineers to Avtosanoat Invest LLC facilities in Uzbekistan
- Structured on-the-job training capability

9.6 OEM Network

- Demonstrated relationships with OEMs or vehicle providers
- Ability to support joint OEM negotiations for donor vehicle selection

10. PROPOSAL SUBMISSION REQUIREMENTS

10.1 Technical Proposal

- Company profile, capabilities, and relevant program references
- Brand creation and automotive design portfolio
- Technology transfer and on-the-job training experience
- Prototype manufacturing capability and references (AM, vacuum casting, RIM, CFRP technology)
- Proposed project team structure and CVs of key personnel
- Donor vehicle research methodology and initial candidate ideas
- Proposed project execution plan per phase
- Proposed detailed milestone schedule (within 12-month total duration)

- Embedded engineer hosting plan (workspace, mentoring, rotation schedule)
- On-the-Job Training Plan outline
- Tools, software, and capabilities
- Risk assessment and mitigation plan
- List of proposed subcontractors or partners

10.2 Commercial Proposal

Cost Breakdown:

- Detailed cost breakdown per phase and activity
- Man-hour rates by discipline and seniority level
- Prototype manufacturing cost per unit and per part category
- Separate cost line for embedded engineer hosting (workspace, workstations, tool access)
- Travel and accommodation for Engineering Company engineers visiting Avtosanoat Invest LLC facilities
- Currency and offer validity period
- Assumptions and exclusions

11. REQUIREMENTS FOR THE CONTRACTOR'S TEAM

11.1 Qualifications and Work Experience of the Contractor's Team

- Employees engaged in the implementation of the Project shall have at least 10 to 20 years of relevant professional experience in the respective field.
- For each employee to be engaged in the Project, documents confirming their qualifications and work experience, such as a CV, diploma, certificate, employment history documents, or other relevant supporting documents, shall be provided.

11.2. Technical Capacity of the Contractor's Team

- The Contractor's team shall possess sufficient technical and professional competencies in the fields of automotive engineering, vehicle design and construction, engineering, design, and prototyping.
- The Participant shall provide verified information regarding its technical capabilities, available laboratories, engineering center, and design and development processes.

11.3. Project Implementation Experience

- The Contractor's team shall have experience in the automotive industry in successfully delivering at least three (3) vehicle models up to the SORP stage.

- The Participant shall also provide supporting documents confirming experience in projects implemented in cooperation with major OEM (Original Equipment Manufacturer) companies.

11.4. Compliance of the Team Composition with Project Requirements

- The Contractor shall form a qualified team consisting of engineers, designers, technologists, project managers, and other specialists required for the implementation of the Project.
- The roles, functions, and areas of responsibility of each specialist within the Project shall be clearly specified.

11.5. Participation of the Team Throughout the Project

- The key specialists engaged in the Project shall directly participate in all stages of service delivery.
- The team composition proposed by the Contractor shall not be changed without the prior written consent of the Customer.
- Where replacement of a team member becomes necessary, the qualifications and experience of the replacement specialist shall be equal to or higher than those of the specialist being replaced.

11.6. Availability of Resources for the Contractor's Team

- The Contractor's team shall possess the necessary technical, financial, material, human, and other resources required for the timely and high-quality performance of the Contract.
- The availability of such resources shall be confirmed by appropriate supporting documents.

11.7 Quality Warranty for the Results of Works and Services

- The Contractor shall provide a warranty for the quality, completeness, and compliance of the works performed and services rendered with the Technical Specification and the requirements of the Contract.
- The Participant shall specify in its Tender Bid the exact warranty period applicable to the results of the works performed and services rendered.
- During the warranty period, any deficiencies, defects, or technical non-conformities identified in the results of the works performed or services rendered by the Contractor shall be remedied at the Contractor's own expense.
- The Contractor shall not be entitled to request any additional payment from the Customer for remedying deficiencies covered by the warranty.
- The Contractor shall remedy any identified deficiencies fully and properly within the period specified by the Customer or agreed upon by the Parties.

- The warranty period and warranty terms shall be clearly specified in the Contractor's Tender Bid and shall constitute a mandatory term of the Contract upon its conclusion.
 - The warranty period and warranty terms proposed by the Contractor shall not be less than the minimum requirements specified in the Tender Documents.
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12. TERMS & CONDITIONS

12.1 Working Language

The working language is **English**. All communications, technical documents, CAD data, drawings, and formal deliverables shall be in English. Supporting documentation may additionally be provided in Russian or Uzbek upon agreement.

12.2 Confidentiality

All tender information is strictly confidential. Bidders must sign an NDA prior to receiving any detailed technical or commercial data.

12.3 Intellectual Property

All deliverables produced under this contract — brand identity, CAD data, styling surfaces, engineering geometry, documentation — shall become the **sole property of Avtosanoat Invest LLC** upon full payment. The Engineering Company shall have no right to use, reproduce, or share any material with any third party.

12.4 Brand Approval Authority

All brand deliverables subject to **formal written approval by Avtosanoat Invest LLC** at each stage. No brand material shall be finalized or published without such approval.

12.5 Standalone Program

This contract covers prototype development only. The next production engineering program is not guaranteed and Avtosanoat Invest LLC reserves full freedom to tender it independently.

12.6 On-the-Job Training Obligation

On-the-job training and technology transfer are **contractual obligations**. Failure to execute the agreed Training Plan shall be treated as a contractual breach subject to penalties as defined in the contract.

12.7 Donor Vehicle Commitment

The Engineering Company shall obtain a **formal written commitment** from the donor vehicle OEM for ICE, and EV and/or PHEV as applicable to the proposed 2nd-unit configuration, including supplier network support for the full 10-year lifecycle.

12.8 CAD Data Package Delivery

The CAD Data Package constitutes a **formal contractual milestone**. All data shall be delivered to Avtosanoat Invest LLC in agreed formats upon M6 completion, regardless of subsequent program decisions.

12.9 Prototype Performance Guarantee

All prototype units shall meet the visual and drivability standards defined in Section 6.2. The Engineering Company shall rectify any unit not meeting these standards prior to the leadership presentation at no additional cost.

12.10 Governing Standards

All work shall be carried out with awareness of ECE regulations in Section 3.7 and Euro 5 emission standards. Full homologation is not required under this program.

12.11 Applicable Law

This contract shall be governed by the laws of the Republic of Uzbekistan.

12.12 General Reservations

Avtosanoat Invest LLC reserves the right to:

- Cancel or modify this tender at any time without obligation
 - Accept or reject any proposal at its sole discretion
 - Negotiate with shortlisted Bidders prior to final award
 - Award the contract in whole or in split scope if warranted
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